





CLS RGB LED Par 56 V3/Polish

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1. INTRODUCTION

Thank you for selecting the CLS RGB LED PAR 56 V3 with 512 DMX-channels. The CLS RGB LED PAR 56 V3 is a universal DMX controlled luminairy that uses 151 5mm LEDs to create an even light-output. The CLS RGB LED PAR 56 V3 works on an input voltage of 100 ~ 240 VAC.

Available RGB LED Pars V3

- CLS RGB LED Par 56 V3
- CLS RGB LED Par 56 V3 Polish

(item nr. 875550) (item nr. 875552)

The CLS RGB LED PAR 56 V3 features:

- 100 ~ 240 VAC input
- DMX input (3/5 channels)
- Auto-change mode
- Stand alone or DMX 512 controllable
- Dip switches
- Manual setting
- Indoor use only

Included items

The CLS RGB LED PAR 56 V3 is shipped in one package containing the following items:

- 1 RGB LED PAR 56 V3
- 1 User manual
- 1 Filter frame

Optional Accessories

- CLS DMX controller ACX60, 60 DMX channels (item nr. 707030)
- CLS DMX cable 0.8 meters (item nr. 911200)
- CLS DMX cable 1.5 meters (item nr. 911201)
- CLS DMX cable 3.0 meters (item nr. 911203)
- CLS DMX cable 5.0 meters (item nr. 911205)
- CLS DMX cable 10.0 meters
 - (item nr. 911206)
- CLS DMX cable 15.0 meters (item nr. 911207)
- CLS DMX cable 20.0 meters (item nr. 911209)

Note: It is important to read this manual before you install this product.

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2. SAFETY INFORMATION

Warning! This product is for professional use only.

Read this manual before powering up or installing the CLS RGB LED PAR 56 V3. Follow the instructions listed below and observe all warnings in this manual.

Protection from electric shock

- Disconnect the power supply from AC power before installation, dismounting or maintenance of the unit.
- Make sure all connectors are connected properly.
- Use only a source of AC power that complies with local building and electrical codes.
- Do not expose the unit to rain or moisture.
- Refer all service to a qualified technician.

Protection from burns and fire

- Provide a clearance of at least 50 mm around the unit.
- Do not install the RGB LED PAR V3 near to a heat source.
- Do not install the RGB LED PAR V3 in a corrosive, flammable or explosive area.
- Do not modify the RGB LED PAR V3, or install other than genuine parts.
- Do not operate the unit if the ambient temperature exceeds 50°C.
- Operate in a well-ventilated area

Protection from damage due to falls

- Verify that all covers and mounting hardware is securely fastened.
- Block access below the work area whenever installing or removing the unit.

3. INSTALLATION

This section describes in general terms how to install the CLS RGB LED PAR 56 V3, and how to connect it to a DMX data link.

3.1. Installing the CLS RGB LED PAR 56 V3

The CLS RGB LED PAR 56 V3 can be installed in different ways.

You can support it on a shelf, or mount it by using the mounting hole.

3.2. Data linking multiple CLS RGB LED PAR 56 V3

You need to create a data link if you want to control one or more CLS RGB LED PAR 56 V3 via a DMX controller. The CLS RGB LED PAR 56 V3 can be data-linked by using the XLR 3 input and output connectors at the back of the unit.

To set up a data link you have to take the following steps:

- Disconnect all the units from the AC supply.
- Connect the XLR 3 female connector of the first CLS RGB LED PAR 56 V3 to a DMX extension cable. Connect the other end of the DMX cable to the XLR 3 male of the next CLS RGB LED PAR 56 V3. You can use CLS DMX cables for this purpose.
- Continue connecting CLS RGB LED PAR 56 V3 in this 'daisy chain' way.
- A maximum of 32 units can be connected in this way.

4. DMX OPERATION

4.1 3 channel DMX Operation

With 3 channel DMX operation you need 3 DMX channels to control the CLS RGB LED PAR 56 V3.

First set the function switches to DMX 3 channel operation:

1	2	3	4	Mode
				DMX 3 channel operation



Now you can give the CLS RGB LED PAR56 V3 a DMX adress with the selection switches:

1	2	3	4	5	6	7	8	9	10	First DMX-channel
										1
										2
										4
										8
										16
										32
										64
										128
										256



Example:

DMX address 5

1	2	3	4	5	6	7	8	9	10



DMX address 36

ı				_	_	_	_	_	_	_
	1	2	3	4	5	6	7	8	9	10

DMX address 348

DMX address 174

1	2	3	4	5	6	7	8	9	10

The functions of the 3 channels are:

Channel	Function
1	Red
2	Green
3	Blue

4.2 5 channel DMX operation

With 5 channel DMX operation you need 5 DMX channels to control the CLS RGB LED PAR 56 V3.

First set the function switches to DMX 5 channel operation:

I	1	2	3	4	Mode
l					DMX 5 channel operation

	= on	
	= off	

Now you can give the CLS RGB LED PAR 56 V3 a DMX address with the selection switches. See table on page 3.

Channel 1 value	Function
0 - 63	RGB control, CH2 = red, CH3 = green, CH4 = blue
64 - 127	7 colour fade, CH5 = speed control
128 - 191	7 colour change, CH5 = speed control
192 - 255	3 colour change, CH5 = speed control
Channel 2 value	
0 - 255	Red
Channel 3 value	
0 - 255	Green
Channel 4 value	
0 - 255	Blue
Channel 5 value	
0 - 10	No speed
11 - 100	Fast to low speed
101 - 150	No speed
151 - 255	Speed control by unit, (potentiometer)

5. STAND-ALONE OPERATION



ATTENTION!
BEFORE SETTING A STAND-ALONE MODE, FIRST UNPLUG THE
EXTERNAL DMX CABLE TO A DMX CONTROLLER. YOU DON'T NEED
A DMX CONTROLLER FOR THESE MODES!

5.1 STATIC COLOURS

You can set the CLS RGB LED PAR 56 V3 on a fixed colour. First set the function switches to Static Colour Mode

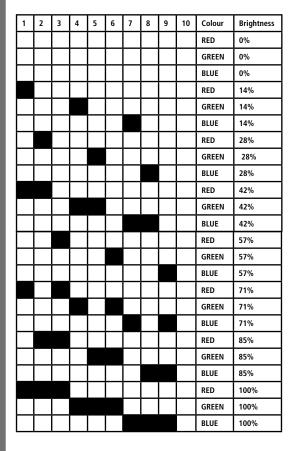
he function switches to Static Colour Mode

Static colour mode

Now create a colour you wishes with the selection-switches:

	= on
	= off

Mode



Example: Magenta

1 2 3 4 5 6 7 8 9 10

Yellow

1 2 3 4 5 6 7 8 9 10

5.2 Colour changing

With this mode, the CLS RGB LED PAR 56 V3 will show you a stepping colour-changing program. You can set the speed of this program by a potentiometer or by music.

1	2	3	4	Mode
			*	Stand-alone operation

dip switch on = Speed control by music dip switch off = Speed control by potentiometer

5.3. Colour changing with 1 Master and maximum 3 Slaves

With this mode you can create a lightshow without a DMX controller. 1 CLS RGB LED PAR 56 V3 must set as master and all other CLS LED PARs as slave units.

I	1	2	3	4	Mode
I				*	Stand-alone master operation

dip switch on = Speed control by music dip switch off = Speed control by potentiometer

And set all other CLS RGB LED PAR 56 V3 to slave operation:

1	2	3	4	Mode	
				Stand-alone slave operation	



All slaves must be set with a DMX address with the selection switches. Every unit needs 5 channels, so the first slave must be set on address 6, the second on 11 and the third on 16.

Connect the master with a DMX cable to the first slave, connect the first slave with a DMX cable to the second slave and connect the second slave with a DMX cable to the third slave.

Now you can choose how you want to change the colours. Fading or stepping.

5.4 Fading colour changes

For fading colour changes with 1 master and maximum 3 slaves set the selection switches from the master on the right position.

	1	2	3	4	5	6	7	8	9	10	Function
İ											Fading colour changes

The selection-switches of the slaves must be "off".

5.5 Stepping colour changes

For stepping colour changes with 1 master and maximum 3 slaves, set the selection-switches from the master on the right position.

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1	2	3	4	5	6	7	8	9	10	Function
										Stepping colour changes

The selection-switches of the slaves must be "off".

TECHNICAL SPECIFICATIONS

Voltage: 100 ~ 240 VAC Power supply:

Power consumption: Max 18 VA Primary fuse: 2,5A Fast 100 mAF Secondary fuse: Weight: 1,2 kg

Dimensions: 220 x 210 x 220 mm (hxwxd) (without bracket) Dimensions filter frame: 198 x 198 mm (hxw) XLR 3 pole male-female Control in & output: 120 ohm DMX cable Control cable:

DMX 512/1990 Control signal: 0 to +50 ^OC Working temperature:

High temperature powder coated steel (item nr. 875550) Housing: Polished steel

(item nr. 875552)

200 cm

Incl

9

10 000 h

Driver

Excl.

LIST OF SYMBOLS

 \bigcirc



Application area Floor, wall or ceiling

Fixture is horizontally rotatable. indicated in degrees

Swivel Fixture is vertically rotatable, indicated in degrees

Multiple connection Possiblities on a fixture

4 cm

Installation depth In centimeters

Mounting hole

Cable length Maximum cable attached on the fixture in centimeters

Incl.

1,2 kg

10.000 h

Driver

Inclusive or exclusive

Weight In gram/kilogram

Pressure Maximum pressure on the fixture per kg/cm2

Of the light source in hours

Curve

Minimal bending curve in centimeters

> LED pitch Pitch between the LEDs in millimeters

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